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Tans. of		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		6862			
09/816,643	03/23/2001	Seiyo Nakashima					
500 S. GRAN	7590 09/09/2002 HARTSON L.L.P. ND AVENUE LES, CA 90071-2611		EXAM KACKAF  ART UNIT 1763	R, RAM N  PAPER NUMBER			
			00/00/2002				

DATE MAILED: 09/09/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	,	Applicant(s)	(C)				
Office Action Summary				NAKASHIMA ET A	AL.				
		09/816,643							
		Examiner	. <del></del>	Art Unit					
		Ram N Kackar	v shoot with the	1763 e correspondence ad	idress				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address									
	. Ca-alir								
THE MA  - Extensic after SI)  - If the pe  - If NO pe  - Failure  - Any rep  earned	PREPLY ORTENED STATUTORY PERIOD FOR REPLY ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. It is is sometime of the provisions of 37 CFR 1.1 (SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period is to reply within the set or extended period for reply will, by statute the provision of the pro		minimum of thirty (30)	e timely filed  days will be considered time from the mailing date of this of	ety. communication.				
Status 1) 🖂	Responsive to communication(s) filed on 13	3 August 2002 .							
\		This action is non-	ı-final.		the morte is				
3)□	3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition	ion of Claims								
4)[2]	Claim(s) 1-12 is/are pending in the application	gun from · ·	eration						
4	4a) Of the above claim(s) <u>10-12</u> is/are withdrawn from consideration.								
5) 🗌	5) Claim(s) is/are allowed.								
6)⊠	6)⊠ Claim(s) <u>1-9</u> is/are rejected.								
7\□	Claim(s) is/are objected to.	Mon alasti	irement						
8) Claim(s) are subject to restriction and/or election requirement.									
Applicati	tion Papers								
9)	The specification is objected to by the Exami	cented or hill	jected to by the	Examiner.					
1	9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Applicant may not request that any objection to	is: a)∏ anni	roved b) disa	approved by the Exai	miner.				
Applicant may not request that any objection to the distance,  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.									
If approved, corrected drawings are required in reply to this office determined in 12) The oath or declaration is objected to by the Examiner.									
Priority	under 35 U.S.C. §§ 119 and 120	rejan priority unde	эr 35 U.S.C. 8	119(a)-(d) or (f).					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a,	a)⊠ All b)  Some * c)  None of:								
	1. Certified copies of the priority documents have been received.								
	Certified copies of the priority documents have been received in Application No  Certified copies of the priority documents have been received in this National Stage								
	3. Copies of the certified copies of the priority documents have been received in this National Stage  3. Copies of the certified copies of the priority documents have been received in this National Stage  3. Application from the International Bureau (PCT Rule 17.2(a)).  4. Application from the International Bureau (PCT Rule 17.2(a)).  4. Application from the International Bureau (PCT Rule 17.2(a)).  4. Application from the International Bureau (PCT Rule 17.2(a)).								
400	A althous deduction is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional apparatus								
	<ul> <li>14) ☐ Acknowledgment is made of a claim for domestic priority analysis</li> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> <li>15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>								
1									
· · ·	nent(s) lotice of References Cited (PTO-892) lotice of Draftsperson's Patent Drawing Review (PTO-948 nformation Disclosure Statement(s) (PTO-1449) Paper No	48)	4) Interview S 5) Notice of II 6) Other:	Summary (PTO-413) Pap Informal Patent Applicatio	per No(s) on (PTO-152)				
3)   <b>⊠</b> In.	morniation practicating oracontempt (1, 10, 1, 10), again.								

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#### **DETAILED ACTION**

#### Election/Restrictions

1. Claims10-12 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a non-elected group, there being no allowable generic or linking claim. Election was made without traverse in Paper No. 10.

## Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claims are generally narrative and indefinite, failing to conform with current U.S. practice. They appear to be a literal translation into English from a foreign document and are replete with grammatical and idiomatic errors. Last paragraph in claim 1 and in claim 2 is not clear.

#### Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by MacLeish et al (US5653808). MacLeish et al disclose a processing chamber (Fig 2), a susceptor (Fig 2-50), a

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heating unit disposed below the susceptor (Fig 2-44), the susceptor capable of lifting, lowering and being rotatable with respect to heating unit (Col 4 line 65 to Col 5 line 5).

Regarding claim 3 the susceptor and the heating unit are capable of being lifted and lowered together so that the distance between the two may be kept constant (Col 5 line 34-37).

Regarding claim 4 and 5 the apparatus for lifting and lowering the substrate is partly disposed inside the susceptor (Fig 1-54) and partly outside (Fig 1-48).

Regarding claim 6 the susceptor has a central member (Fig 2) and an attached peripheral member (Fig 2-50a) and the lifting apparatus is attached to the central member (Fig 2-48).

Regarding claim 7 the heating member is in three independently controllable parts so that at least one may correspond to the central part and one may correspond to the peripheral part (Col 4 56-60).

Regarding claim 8, in addition to the disclosure in paragraph 1, MacLeish et al also disclose a structure of susceptor so that when a substrate sits on it, its upper surface will be substantially flush with the peripheral part (Fig 3b).

## Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over MacLeish et al (US5653808) in view of Okayama et al (US 6334983). MacLeish et al do not disclose a member made of quartz being flush with upper surface of susceptor and disposed in an outer periphery of

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said susceptor. Okayama et al disclose a quartz ring disposed on the susceptor at periphery and

substantially flush with the upper surface of the susceptor (Fig 1-126 and Col 7 line 45-50) for

focusing the plasma. There fore it would have been obvious for one of ordinary skill to modify

the susceptor of MacLeish et al with a quartz ring on the periphery so as to serve as a focus ring.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ram N Kackar whose telephone number is 703 305 3996. The

examiner can normally be reached on M-F 8:00 A.M to 5:P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Gregory Mills can be reached on 703 308 1633. The fax phone numbers for the

organization where this application or proceeding is assigned are 703 872 9310 for regular

communications and 703 872 9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703 308 0661.

RK

September 5, 2002

GREGORY MILLS
SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 1700